

10/532095

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International application No.

PCT/KR2004/000153

INTERNATIONAL SEARCH REPORT

A. CLASSIFICATION OF SUBJECT MATTER

IPC7 C09K 11/59

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 C09K 11/63, 11/79, H01L 33/00

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched
Korean Patents and applications for inventions since 1975

Korean Utility models and applications for Utility models since 1975

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)
NPS, PAJ

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 5,068,055 A (GTE Products Corporation) 26. NOVEMBER 1991 abstract, example1	1-13
Y	EP 972,815 A1 (XIAO ZHIGUO, XIAO ZHIQIANG) 19. JANUARY 2000 column9-16, table3, claim9-11	1-13
Y	US 5,023,015 A (GTE Products Corporation) 11. JUNE 1991 abstract, axample1-2, claim1	1-13
A	US 6,255,670 B1 (GENERAL ELECTRIC COMPANY) 3. JULY 2001 column8 line45 - column9 line17	1, 14-18

 Further documents are listed in the continuation of Box C. See patent family annex.

- * Special categories of cited documents:
- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier application or patent but published on or after the international filing date
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- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "&" document member of the same patent family

Date of the actual completion of the international search

10 MAY 2004 (10.05.2004)

Date of mailing of the international search report

11 MAY 2004 (11.05.2004)

Name and mailing address of the ISA/KR



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INFORMATION ON PATENT FAMILY MEMBERS

Patent document cited in search report	Publication date	1 Inventor(s)	2
US 5,068,055 A	26.11.1991	NONE	
EP 972,815 A1	19.01.2000	JP 2001518972 T2 US 6093346 A WO 9842798 A1 CN 1062581 B	16.10.2001 25.07.2000 01.10.1998 28.02.2001
US 5,023,015 A	11.06.1991	NONE	
US 6,255,970 B1	03.07.2001	NONE	